

## LIST OF PROF EKINS' CONFERENCES AND LECTURES

Date	Conference/Lecture Title	Place
<b>1961</b>		
20 October	Fifth Annual Symposium on Advances in Tracer Methodology; lecture on "Measuring tritium-labelled substances"	Washington D.C.
<b>1963</b>		
13-16 November	Conference on Methods of Preparing and Storing Marked Molecules; lecture on "Iodination of proteins to high specific activity"	Brussels
<b>1964</b>		
8-11 January	6th International Symposium on Radioactive Isotopes in Clinical Medicine and Research; lecture on "The Microassay of Vitamin B-12 in Human Plasma by the Saturation Assay Technique"	Bad Gastein, Austria
20 March	Lecture on "Microanalysis of some vitamins and hormones in blood"	British Institute of Radiology, London
3 July	Lecture on "Immunoassay of Hormones"	Bruxelles
19-23 October	Symposium on Radio-Chemical Methods of Analysis, I.A.E.A; lecture on "The Microassay of Vitamin B-12 in Human Plasma by the Saturation Assay Technique"	Salzburg
12 November	Lecture on "Radioactive Analytical Methods"	Isotope School, Wantage
3 December	Lecture on "Analytical uses of radioisotopes"	Isotope School
<b>1965</b>		
17 March	Lecture on "Simultaneous sodium potassium space measurement and computer analysis of data"	British Institute of Radiology, London
24-28 May	Symposium on Radioisotope Sample Measurement Techniques in Medicine and Biology	Vienna
1 October	Symposium on Progress in Medical Computing: lecture on "Computer-assisted routine tracer tests"	Med. Automation Centre, Edinburgh
<b>1966</b>		
10-13 January	VII International Symposium on Radioactive Isotopes in Clinical Medicine and Research, lecture on "The measurement of glomerular filtration rate using radioactive and/or stable vitamin B-12"	Bad Gastein, Austria

17-19 January	Conference on Problems Connected with the Preparation and Use of Labeled Proteins in Tracer Studies	Pisa
8 March	Lecture on "Methods of determining body water and their accuracy"	City General Hosp., Sheffield
19 March	Symposium on "Radioisotopes in the hospital: applications in clinical investigation and diagnosis"; lecture on "Sample measurement techniques"	B.I.R., The M.H.M.S
<b>1967</b>		
13-16 November	11th Symposium on Radioisotopes in Medicine: In Vitro Studies; lecture on "Mathematical analysis of the radio-immunoassay or saturation method"	Oak Ridge, Tennessee, USA
5 December	Workshop Conference on Statistics in Endocrine Research; lecture on "Theoretical aspects of saturation assay"	Boston, USA
11-23 December	Course on Recent Progress in the Application of Nuclear Techniques in Biomedical Research; lecture on "Theoretical aspects of radioimmunoassay and sensitivity of the techniques"	Brussels
<b>1968</b>		
23 February	Lecture on "The sensitivity, specificity and precision of radioimmunoassay and saturation assay"	Medical Research Society, the M.H.M.S.
19-25 May	International Symposium on Proteins and Polypeptide Hormones; lecture on "The optimisation of precision and sensitivity in the radioimmunoassay method"	Liege, Belgium
30 June - 5 July	Third International Congress of Endocrinology.	Mexico City
25-30 August	Laurentian Hormone Conference. Discussion	Mont Treblant Quebec
25 October	Lecture on "Principles of saturation and competitive protein binding techniques"	St Mary Hospital, London
22-25 November	Symposium on The Measurement of Renal Clearance with Radioactive Isotopes; lecture on "Estimation of Glomerular Filtration Rate with CO-57 Vit B-12"	Gussing (Vienna)
<b>1969</b>		
24 March	Lecture to Royal Berkshire Hospital on "Principles and applications of radioimmunoassay and other saturation assay techniques"	Berkshire
23-24 April	First Northern Symposium on Liquid Scintillation Counting; lecture on "The application of liquid scintillation counting in the field of medical physics"	Leeds
26 April	Lecture to Lincoln Area Department of Pathology on "Chemical assays/radioisotope techniques"	Lincoln County Hospital

29 June - 2 July	VII Acta Endocrinologica Congress: "The fundamental principles governing the attainment of high sensitivity and precision in radioimmunoassay techniques, and their exemplification in a method for the assay of serum insulin", "A simple and sensitive assay of plasma testosterone by saturation (displacement) analysis"	Stockholm
11 July	Symposium on Radioimmunoassay and Related Techniques; lecture on "Saturation analysis"	St Bartholemew's Hospital
17 July	Endocrinology Meeting; lecture on "The measurement of the thyroid hormones"	Hampstead, New End Hospital
24-29 August	The Laurentian Hormone Conference	Mont Tremblant, Quebec
8-12 September	I.A.E.A. Symposium: "In Vitro procedures with radio-isotopes in clinical medicine and research"; lecture on "Theoretical aspects of saturation analysis"	Vienna
15 October	Lecture for Medical Isotope Course on "Saturation analysis"	Cambridge
12-14 November	Symposium on Nuclear Medicine; lecture on "Saturation Analysis"	Bunnik, the Netherlands
21 November	Workshop on Radioimmunoassay (Association of Clinical Biochemists); lecture on "Saturation Analysis"	The Wellcome Research Lab., Beckenham
24 November	MRC Clinical Endocrinology Unit Workshop Meeting; lecture on "Methods of determining plasma steroids by saturation analysis"	Edinburgh
28 November	Society of Endocrinology General Meeting; lecture on "A radioimmunoassay for serum triiodothyronine"	The M.H.M.S.
<b>1970</b>		
20 February	Medical Research Society Meeting; lecture on "The radioimmunoassay of serum triiodothyronine"	The M.H.M.S.
18 March	Symposium on Recent Advances in Diagnostic Agents Techniques; lecture on "Radioimmunoassay of thyroid and steroid hormones"	The B.I.R. M.H.M.S.
23-25 March	Karolinska Symposium N2: "Symposium assay by competitive protein binding"; lecture on "Theoretical aspects of saturation analysis"	Geneva
22-25 June	VI International Thyroid Conference; lecture on "The radioimmunoassay of serum triiodothyronine"	Vienna
15-17 September	Radioimmunoassay Methods (European Workshop) Participation in the plasma workshop meeting	Edinburgh
28 October	Lecture on "The theoretical introduction to saturation analysis", Joint Meeting of HPA and Association of Clinical Biochemists	The M.H.M.S.
19-20 November	Endocrinological Society: Saturation analysis of cAMP	London

Lectures on "Serum thyroid hormone concentration following TSH injection" and "The determination of corticosterone levels in human plasma by saturation analysis"

## 1971

- |                          |   |                            |
|--------------------------|---|----------------------------|
| 22-23 March              | Conference on Nuclear Instruments and Methods: Analysis of the need for nuclear instruments for routine analysis  | LKB, Finland               |
| 4-8 July                 | VIII Acta Endocrinologica Congress; lecture on "Development of a rapid, sensitive and specific method for the measurement of aldosterone by radioimmunoassay"   | Copenhagen                 |
| 20-23 July               | International Conference on the Physiology and Pharmacology of c.A.M.P.; lecture on "Protein: a comparison with current radioimmunoassay methods. the saturation assay of cyclic AMP using adrenal binding"                     | Milan                      |
| 13-15 September          | 1st International Symposium of the Journal of Steroid Biochemistry on "The interaction of steroids with macromolecules": Lecture on "The radioimmunoassay of aldosterone in serum and urine: theoretical and practical aspects" | Paris                      |
| 20-24 September          | IV Meeting of European Thyroid Association  | Berne, Switzerland         |
| 28 September - 1 October | 2nd International Symposium on Protein and Polypeptide Hormones   | Liege Belgium              |
| 14 October               | Lecture on "General principles of saturation analysis"  | Univ. of Surrey, Guildford |
| 12 November              | Meeting of Biochemistry Society and Society of Clinical Biochemists: "Cyclic nucleotides and thyroid hormones. Radioimmunoassay or protein binding assay?"  | The M.H.M.S.               |
| 15-18 November           | Seminar "Techniques for separation and analysis in medical biochemistry and clinical chemistry"; lecture on "Saturation analysis"   | Moscow                     |
| 28 November - 1 December | Workshop Conference on "Molecular linguistic" (Prof Hechter, Prof Schwyer and Dr Woodger)   | Zurich                     |

## 1972

- |                |   |                       |
|----------------|---|-----------------------|
| 26 January     | Lecture on "Clinical measurement of circulating T3/T4"  | Skyways Hotel, London |
| 27-28 January  | European Radioimmunoassay Club (ERIAC): "Radioimmunoassay sensitivity and its relationship to antibody-antigen binding characteristics"           | Basle, Germany        |
| 15-16 February | Joint Meeting of Society for Endocrinology, Endocrine Section and Section of Measurement and Medicine: "Methods of data acquisition and analysis" | Royal Society, London |

15-16 May	5 lectures on "Radioisotopic methods in hormone assay": University of 1. Dilution analysis 2. Activation analysis 3. Derivation analysis 4. Saturation analysis 5. Immunoradiometric assay	Dublin
18-23 June	IV International Congress of Endocrinology; lecture on "Theoretical aspects of immunoassay"	Washington
19 October	MSc Course in Clinical Biochemistry; lecture on "General principles of saturation analysis"	Guildford
10 November	In Vitro Assessment of Thyroid Function	St Bartholemew's Hospital, London
23-24 November	British Institute of Radiology 75th Anniversary Symposium; lecture on "Saturation Analysis"	Royal Society, London
23-24 November	Society for Endocrinology Ordinary General Meeting; lecture on "The effect of increased K <sup>+</sup> concentration and serotonin on cyclic AMP and cortico- sterone output by dispersed adrenal zona glomerulosa cells", "Optimisation of radioimmunoassay, protein binding and other saturation assay techniques", "The production of antisera for radioimmunoassay of thyroxine", "Radio- immunoassay of serum triiodothyronine in patients with thyroid disease"	The MHMS,  London
<b>1973</b>		
24-26 January	European Radioimmunoassay Club (ERAC) 2nd Meeting; discussion on TSH	Basel, Switzerland
22 February	Lecture: "Is thyroxine a hormone?"	St Thomas Hospital
11 April	Symposium on RIA (Beckman); lecture on "Theory of assay optimisation. Implications in practical assay procedures. Plotting of results. Analysis of data"	The M.H.M.S.
9 May	Computer optimised radioimmunoassay procedures for the direct measurement of total and free thyroid hormone (T3/T4) concentrations in serum	Univ. of Florence
17-18 May	Society for Endocrinology General Meeting; lecture on "The radioimmunoassay of free (dialysable) T3 and T4 concentrations in serum"	London
13 June	Symposium on Radioisotopes in Haematology (Nuc. Med., B.I.R., Brit. Soc. for Haemat.); lecture on "Saturation analysis of vitamin B <sub>12</sub> and data processing associated with this and similar assays"	The M.H.M.S.
17-21 June	IX Acta Endocrinologica Congress; lectures on "Automation in radioimmunoassay", "The direct measure- ment of radioimmunoassay of free thyroid hormone concentrations in serum"	Oslo
10-14 September	Symposium on Radioimmunoassay and Related Procedures in Clinical Medicine; lecture on "Automation of radio-	Istanbul

immunoassay and other saturation assay methods"

22-23 November

135th Meeting of Society for Endocrinology; lectures on The M.H.M.S.  
"An electrolytic procedure for iodination of glycoprotein  
and protein hormones", "Immunological determinants of  
LH and HCG: contributions of the subunits and of the  
conformation of the native hormone", "The effect of  
angiotensin II on cyclic amp and corticosterone output by  
purified zona glomerulosa and zona fasciculata cells of  
the rat adrenal cortex"

<u>DATE</u>	<u>CONFERENCE</u>	<u>PLACE</u>
<u>1972</u>		
31 October	Royal Statistical Society The Optimisation of Immunoassay and Similar Procedures	London
<u>1973</u>		
02-04 July	Dynamic Analysis of Biological Systems	London
<u>1974</u>		
06-08 February	3rd ERIAC Meeting Optimisation of Assays using Computer Models	Basle
18 March	Basic Principles Lecture on Basic Principles and Theory of Radioimmunoassay and Saturation Analysis. Data handling for clinical application. Free triiodothyronine and Free Thyroxine as Special Examples.	Berlin
02-05 April	Tenovus Workshop Steroid Immunoassay Discussion	Cardiff
13 May-07 June	Postgraduate Course in Endocrinology Principles of Radioimmunoassay	London
10 June	Radioimmunoassay Design 'Pharmaceutical Research'	Hoechst
07-09 August	Int. Conf. Thyroid Hormone and Met.	Glasgow
11-14 September	12th Ann Meeting Soc. of Nuclear Medicine Automation & Standardisation of Radioimmunoassay Procedures	Munich
24-26 September	LKB Symposium on Radioimmunoassay Radioimmunoassay Design	Oxford
30 Sept - 04 October	1st World Congress of Nuclear Medicine & Biology In Vitro Procedures	Tokyo/Kyoto Japan
08-13 October	Post-Congress Symposium in Nuclear Medicine Radioimmunoassay & Protein Binding Analysis	Taipei
05 November	Symposium on Radioimmunoassay Theory & Principles of Radioimmunoassay	City University.
<u>1975</u>		
16 January	Radioimmunoassay Applications of RIATech. College	High Wycombe
23-24 January	Dr Wide Laboratory	Uppsala, Sweden
05-07 February	4th ERIAC Meeting	Basle

17 March	Meeting with Professor Hall Multicentre Trial TSH	Newcastle
29 May - 02 June	II Sympso Interna Processing Computerization and graphical display of RIA dose-response	Capri
09-13 June	7th International Thyroid Conference The Radioimmunoassay of Free Thyroid Hormones in Serum	Boston, USA
26-29 August	ACTA Congress	Amsterdam
27-31 October	Congress of Biochemistry	Buenos Aires
07-08 November	Symp. of Soc. Clin. Chemistry Specificity Problems in RIA	Helsinki
<u>1976</u>		
25 February	RIA Data Analysis Meeting	Charring Cross Hospital
25-26 March	British Nuclear Medicine Society Intelligent Radioactive sample counting with specific reference to the counting of radioimmunoassay samples	University of London
16 June	Inter. Conf. on Immunology	Carlton Towers Hotel, London
29 June - 2 July	European Thyroid Ass.	Helsinki
13 July	Workshop on TSH receptors & TSAb	M.H.M.S. London
15 July	Immunology Course  Radioimmunoassay	Central Poly
18-24 July	V Inter. Con. of Endocrinology Workshop on Cytochemical Bioassays	Hamburg
26 July	2nd Euro. Colloquium on hypothalamic hormone Immunological aspects of hypothalamic hormones	Tubigen, Germany
06-10 September	Asia/Oceania Con. of Nuc. Medicine Radioassays: Developments and Trends	Sydney
21-23 September	Symposium on Radiochemical Techniques Samples derived from Radioimmunoassay	Brighton,
08-12 November	Workshop on RIA Heterogeneity of antibodies, methodological and clinical implications	Warsaw
23 Oct	General Principles of RIA	Linkoping



18-19 Nov	WHO program for QC of RIA	University Geneva
30 November	IAEA Course 'Organisation of National Hormone Assay Services'	London
<u>1977</u>		
20 Jan	Radiochemical Cen Precision Profiles and Optimisation of Counting Time	Amersham
7-9 Feb	W.H.O.	Geneva
16 Feb	B.I.R. Nuclear Medicine Section The Radioimmunoassay Precision Profile: A Guide to Radioimmunoassay Design & Optimal Counter Usage	London
23 Feb	ACB AGM Principles of RIA: Fact & Fiction	Northwick Park
26 Feb-2 March	Med. Acad. of Poznan	Poland
11-12 March	Rec. Adv. in Clinic Radioimmunology Radioimmunoassay of free thyroid hormones in serum	Brescia,
17-20 May	W.H.O.	Geneva
19-23 June	XIth Acta Endocr. Design, Optimization & Ruggedness of Assays	Lausanne
12 July	ACB Thyroid Hormones	Birmingham
17-22 July	4th SAC Conf	Birmingham
12-14 September	2nd Inter. Clin. Comp. Conf Making Better Use of Scintillation Counters	Birmingham
12-16 September	WHO RIA Training Course	Costa Rica
13-16 September	Society of Nuclear Medicine 'Radioassays: Developments & Trends	Gronligen, Netherlands
2 October	Annual Refresher Course for G.P.'s The Supraregional Assay Service	Middlesex Hospital,
31 Oct - 4 Nov	RIA & Related Procedures in Medicine The Future Development of Immunoassay	Berlin
09-11 November	WHO Working party on Stand & QC RIA	Geneva
14 November	Lecture to Pharmacology Students Binding Assay Seminar	University College, London
18 November	Wellcome Research Labs	Beckenham, Kent

## 1979

30 January	National Quality Control of Specialised Assays in Clinical Chemistry: Roles of the DHSS and the Professions	DHSS, London
12-14 January	WHO Steering Committee Meeting on the Programme on Chelsea Hospital Standardisation of QC of RIA of Hormones in Reproductive Physiology. Lecture on "A radioimmunoassay data-processing package"	
12 March	RIA Course	Sri Lanka
18-23 March	2nd International Symposium on Radiopharmaceuticals "Radioimmunoassay"	Seattle, Washington
19-21 April	4th International Symposium on Radioimmunology Lecture on "Quality control and assay design"	Lyon, France
24-26 May	Congress of Nuclear Medicine	Florence
24 May	Pharmacia Senior Investigator Award National Convention of the Clinical Radioassay Society	Washington
2-6 July	European Thyroid Association Meeting "Direct free thyroxine measurement: a simple method"	Newcastle-Upon-
9-14 July	IAEA Research Co-ordination Meeting on In Vitro Assay Methodology	The M.H.M.S.
15-17 August	Pharmacia Diagnostics	Uppsala, Sweden
10 September	Lecture at the University of Brussels	Brussels
11-14 September	17th Annual Meeting of Society of Nuclear Medicine Lecture on "Nuclear Medicine and in vitro methods"	Insbruck, Austria
16-21 September	SAS Advanced Immunoassay Workshop "RIA and related techniques - basic principles"	Guildford
19 October	Swiss Society for Clinical Chemistry - Symposium on Clinical Chemistry. Lecture on "Saturation Analysis"	Berne
22-23 November	Society for Endocrinology Meeting "A simple general method for the assay of free hormones (and drugs): its application to the measurement of serum free thyroxine levels and the bearing of assay results on the "free thyroxine" concept"	The M.H.M.S.
29-30 November	Workshop on Hormonal Rhythms of Pituitary Hormones in Man - Workshop project on "Circadian and ultradian variations of pituitary hormones in man"	Brussels
12 December	Meeting on Reagent Supply and Quality Control	Amersham
19-20 November & 3-4 December	Robert First Meetings - Conference on Computers in the Clinical Laboratory - lecture on "Computerization in RIA and quality control"	Dusseldorf Chicago

## 1977

- |              |  |                             |
|--------------|--|-----------------------------|
| 5-8 December | Advisory Group on Facilities for In Vitro Radioassays<br>IAEA (report on SAS Service)  | Vienna                      |
| 13 December  | Automated Calculation of RIA Results.<br>Papers on "Identification of outliers" and "Curve-fitting<br>to radioimmunoassay standard curves: spline and multiple<br>binding-site models" | Clin. Res. Centre<br>Harrow |

## 1978

- |                 |  |                     |
|-----------------|--|---------------------|
| 22-28 January   | 6th Asia and Oceania Congress of Endocrinology<br>"Quality control and assay design"   | Singapore           |
| 23 April        | Annual Refresher Course<br>"The Regional Assay Service"  | Courtauld           |
| 3-4 May         | Lecture at University of Salamanca on "Methodology of<br>hormone measurement"  | Salamanca,<br>Spain |
| 14 May          | Evaluation of New Concepts in Thyroid Testing<br>"Comments and evaluation of FT4"  | Teheran             |
| 29 May - 1 June | Steering Committee of Scientific Working Group on<br>Schistosomiasis<br>"Radioisotopic methods for the detection and measurement<br>of specific anti-schistosomal antibodies and schistosomal<br>antigens" | Geneva              |
| 29 June         | Meeting to discuss draft report of WHO Working Party<br>on Standardisation and Quality Control of Immunoassay  | NIBSC               |
| 3-6 July        | WHO Working Party on Standardization and Quality<br>Control of Immunoassay   | Geneva              |
| 4-8 September   | European Thyroid Association Meeting   | West Berlin         |
| 10-15 September | SAS Advanced RIA Workshop<br>"RIA and related techniques - basic principles and theory"  | Guildford           |
| 17-21 September | World Federation of Nuclear Medicine and Biology<br>"The special requirements in developing countries"   | Washington          |
| 16-19 October   | Advisory Group on IAEA Research Contract Programme<br>on In Vitro Assay Techniques   | Vienna              |
| 6-8 November    | Workshop on Standardisation and Quality Control of<br>Radioimmunoassay in Reproductive Endocrinology<br>Co-ordination of discussion on Internal QC on a day-to-day<br>basis                                | New Delhi           |
| 11-12 December  | International Symposium on Free Thyroid Hormones<br>"Methods for the measurement of free thyroid hormones"   | Venice              |

## INVITED LECTURES

Identification of outliers.

MRC Clinical Research Centre, Northwick Park Hospital, London.  
December, 1977.

Curve fitting to radioimmunoassay standard curves: spline and multiple binding-site models.

MRC Clinical Research Centre, Northwick Park Hospital, London.  
December, 1977.

New concepts for thyroid function test.

Utrecht, The Netherlands.  
April, 1978.

Methodology of hormone measurement.

University of Salamanca, Salamanca, Spain.  
May, 1978.

Radioimmunoassay: special requirements in developing countries.

II International Congress of the World Federation of Nuclear Medicine and Biology,  
Washington D.C., U.S.A.  
September, 1978.

Methods for the measurement of free thyroid hormones.

International Symposium on Free Thyroid Hormones, Venice, Italy.  
December, 1978.

Radioimmunoassay.

II International Symposium on Radiopharmaceuticals.  
Radiopharmaceutical Science Council, Seattle, Washington D.C., U.S.A.  
March, 1979.

New concepts in radioimmunoassay.

Lecture given on the occasion of being presented with the Senior Investigator Award<sup>rd</sup> of the  
Clinical Radioassay Society, Washington D.C., U.S.A.  
May, 1979.

Recent and future trends in radioimmunoassay.

XVII National Congress of Italian Society of Nuclear Medicine and Biology,  
Florence, Italy.  
May, 1979.

The measurement and physiological significance of free thyroid hormones: a possible role  
for thyroxine binding globulin.

University of Uppsala, Sweden.  
August, 1979.

Saturation analysis.

Jubilee Symposium of the Swiss Society of Clinical Chemistry.  
University Hospital, Berne, Switzerland.  
October, 1979.

Computerization in RIA and quality control.

Conference on "Computers in the Clinical Laboratory", Dusseldorf, W. Germany.  
November, 1979.

A simple general method for the assay of free hormones (and drugs): its application to the  
measurement of serum free thyroxine levels and the bearing of assay results on the "free  
thyroxine" concept.

Society for Endocrinology, London.  
November, 1979.

# 1980

21 January	Lecture on "Free hormone measurement"	Amersham, Radio- Chem. Centre
22 January	Lecture on "RIA of ligands and free hormones"	King's College, London
23-24 January	"Statistical basis of RIA and related techniques"	Lyon, Nuc. Med. Centre
14 April	Immunoassay for the 80's Meeting Lecture on "Merits and disadvantages of different labels and methods of immunoassay"	London Zool. Society
17 April	Visit to Nijmegen	Holland
18 April	Thyroid Club Meeting "New methods of assay of free thyroid hormone"	Clin. Res. Centre Harrow
23-24 April	Symposium in the National Institute of Sciences Lecture on "Radioimmunoassay design - some basic concepts and experimental procedures"	Saclay, Paris
21-30 April	WHO Training Course in Quality Control "Standardization and Quality Control of Radioimmunoassay of Hormones"	Moscow
28 April - 9 May	RIA Course "Radioimmunoassay design - some basic concepts and experimental procedures"	East Berlin
5-9 May	Second Symposium on Isotopic and Non-Isotopic Immunoassay - lectures on "Measurement of free hormones and drugs" and "Fluorescence immunoassay"	Ontario, Canada
14-16 July	WHO Annual Steering Committee	The M.H.M.S.
16-17 June	Visit to Pharmacia	Uppsala
31 August	SAS Immunoassay Workshop Lecture on "Radioimmunoassay and related techniques - basic principles"	Guildford
20 October	Visit to Cranfield Institute of Technology	Cranfield
27-29 October	IAEA Meeting on Programmable Calculators and Computers in RIA Counting Data	Vienna
13-15 November	1st National Congress of Nuclear Medicine Lecture on "Measurement and physiological significance of free hormones and drugs"	Lisbon